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Accuracy

Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. —Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. —Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).

Aerial photography

Georeferencing Aerial Photography: Beginners Approach. —Ahmad S. Massasati; 128(4), 159-67 (2002).

Algorithms

Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. —Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

Alignment

Dynamic Parallel Roll Alignment. —W. F. Teskey and R. S. Radovanovic; 128(3), 136-43 (2002).

Amplitude

Analytical Solution for the Amplitude Ratio Method for Determining Mean High Water in Tidal Regions. —Joshua Greenfeld; 128(2), 61-75 (2002).

Analytical techniques

Analytical Solution for the Amplitude Ratio Method for Determining Mean High Water in Tidal Regions. — Joshua Greenfeld; 128(2), 61-75 (2002).

Conservation

Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Construction industry

Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).

Densification

Application of Theil Model to Adjustments of Network Densifications. — Rongshin Hsu; 128(3), 144-56 (2002).

Digital techniques

Georeferencing Aerial Photography: Beginners Approach. — Ahmad S. Massasati; 128(4), 159-67 (2002).

Engineering education

Georeferencing Aerial Photography: Beginners Approach. —Ahmad S. Massasati; 128(4), 159-67 (2002).

Transformation of Survey Coordinates—Another Look at an Old Problem. —William H. Sprinsky; 128(4), 200-9 (2002).

Errors

Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. —Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

Geodesy

Application of Gauss-Bonnet Theorem to Geodesy. — Gaye Kızılsu; 128(3), 125-35 (2002).

Geodetic surveys
Application of Gauss-Bonnet Theorem to Geodesy. — Gaye Kızılsu; 128(3), 125-35 (2002).

Geographic information systems
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).
Transformation of Survey Coordinates—Another Look at an Old Problem. — William H. Sprinsky; 128(4), 200-9 (2002).

Geoid
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Global positioning
Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. — Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).
Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. — Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

History
Surveying and Mapping: History, Current Status, and Future Projections. — Paul R. Wolf; 128(3), 79-107 (2002).

Leveling
Functional Models and New Stochastic Model in Combined Leveling Nets. — M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Mapping
Surveying and Mapping: History, Current Status, and Future Projections. — Paul R. Wolf; 128(3), 79-107 (2002).

Models
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).
Application of Theil Model to Adjustments of Network Densifications. — Rongshin Hsu; 128(3), 144-56 (2002).

Networks
Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. — Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

Optimization
Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. — Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).

Parallel processing
Dynamic Parallel Roll Alignment. — W. F. Teskey and R. S. Radovanovic; 128(3), 136-43 (2002).

Quality control
Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).

Refraction
Functional Models and New Stochastic Model in Combined Leveling Nets. — M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Remote sensing
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Scale, ratio
Functional Models and New Stochastic Model in Combined Leveling Nets. — M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Standards
Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).

Stochastic models
Functional Models and New Stochastic Model in Combined Leveling Nets. — M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Surveys
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. — Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).
Surveying and Mapping: History, Current Status, and Future Projections. — Paul R. Wolf; 128(3), 79-107 (2002).
Dynamic Parallel Roll Alignment. — W. F. Teskey and R. S. Radovanovic; 128(3), 136-43 (2002).
Application of Theil Model to Adjustments of Network Densifications. — Rongshin Hsu; 128(3), 144-56 (2002).
Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).
Transformation of Survey Coordinates—Another Look at an Old Problem. — William H. Sprinsky; 128(4), 200-9 (2002).

Taiwan
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Tidal water
Analytical Solution for the Amplitude Ratio Method for Determining Mean High Water in Tidal Regions. — Joshua Greenfeld; 128(2), 61-75 (2002).

Water levels
Analytical Solution for the Amplitude Ratio Method for Determining Mean High Water in Tidal Regions. — Joshua Greenfeld; 128(2), 61-75 (2002).

Watershed management
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Author Index

Baykal, O.
Functional Models and New Stochastic Model in Combined Leveling Nets. —M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Biswas, Sujata
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Burtch, Robert C.
In Memoriam. —Robert C. Burtch; 128(3), 77-8 (2002).
Editor's Note. —Robert C. Burtch; 128(4), 157-8 (2002).

Cannon, M. Elizabeth
Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. —Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

Chen, Chun-Sung
Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. —Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).

Coşkun, M. Zeki
Functional Models and New Stochastic Model in Combined Leveling Nets. —M. Zeki Coşkun and O. Baykal; 128(4), 168-86 (2002).

Desai, V. R.
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Greenfeld, Joshua
Analytical Solution for the Amplitude Ratio Method for Determining Mean High Water in Tidal Regions. —Joshua Greenfeld; 128(2), 61-75 (2002).

Hsu, Rongshin
Application of Theil Model to Adjustments of Network Densifications. — Rongshin Hsu; 128(3), 144-56 (2002).

Hwang, Cheinway
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Hwang, Lih-Shinn
Use of Geoid for Assessing Trigonometric Height Accuracy and Detecting Vertical Land Motion. — Cheinway Hwang and Lih-Shinn Hwang; 128(1), 1-20 (2002).

Kızılsu, Gaye
Application of Gauss-Bonnet Theorem to Geodesy. — Gaye Kızılsu; 128(3), 125-35 (2002).

Lam, Steve Y. W.
Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).

Massasati, Ahmad S.
Georeferencing Aerial Photography: Beginners Approach. —Ahmad S. Massasati; 128(4), 159-67 (2002).

Radovanovic, R. S.
Dynamic Parallel Roll Alignment. —W. F. Teskey and R. S. Radovanovic; 128(3), 136-43 (2002).

Sprinsky, William H.
Transformation of Survey Coordinates—Another Look at an Old Problem. —William H. Sprinsky; 128(4), 200-9 (2002).

Sudhakar, S.
Remote Sensing and Geographic Information System Based Approach for Watershed Conservation. — Sujata Biswas, S. Sudhakar, and V. R. Desai; 128(3), 108-24 (2002).

Tang, Conrad H. W.
Role of Surveyors under ISO 9000 in the Construction Industry. — Steve Y. W. Lam and Conrad H. W. Tang; 128(4), 187-99 (2002).

Teskey, W. F.
Dynamic Parallel Roll Alignment. — W. F. Teskey and R. S. Radovanovic; 128(3), 136-43 (2002).

Varner, Christopher C.
Developing Carrier-Phase Differential Global Positioning System Networks with Partial Derivative Algorithms. — Christopher C. Varner and M. Elizabeth Cannon; 128(2), 39-60 (2002).

Wolf, Paul R.
Surveying and Mapping: History, Current Status, and Future Projections. — Paul R. Wolf; 128(3), 79-107 (2002).

Yeh, Ta-Kang
Enhancing Precision of Global Positioning System using Short-Range Distance Baseline Field. — Chun-Sung Chen and Ta-Kang Yeh; 128(1), 21-38 (2002).